

- 1. A method for producing a cancer growth inhibiting response, comprising: administering, to a prostate cancer patient in need thereof, an effective amount of activated T cells, in which the T cells were activated *in vitro* by exposure to human dendritic cells exposed to a prostate cancer antigen.
- 2. The method according to claim 1, in which the prostate cancer antigen is selected from the group consisting of a lysate of LNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, a membrane preparation of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), a peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the amino acid sequence a peptide having the sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3) where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.
- 3. The method according to claim 1, in which the prostate cancer antigen is selected from the group consisting of:
 WLCAGALVL (SEQ. ID. NO. 4); VLAGGFFLL (SEQ. ID. NO. 5);
 ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);
 TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);
 PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);
 LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);
 EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);
 RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPPGY (SEQ. ID. NO. 17);
 TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19);
 WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21);
 DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23);
 AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25);

GYYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27); NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29); LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31); VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33); ALPERPSLY (SEQ. ID. NO. 34); JVGGWECEK (SEQ. ID. NO. 35); QVHPQKVTK (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37); CYASGWGSI (SEQ. ID. NO. 38).

- 4. The method according to claim 2 in which the prostate cancer antigen is PSMA.
- 5. The method according to claim 1, in which the human dendritic cells were obtained from skin, spleen, bone marrow, thymus, lymph nodes or peripheral blood of the prostate cancer patient.
- 6. The method according to claim 1, in which the human dendritic cells were obtained from peripheral blood.
- 7. The method according to claim 1, in which the human dendritic cells are extended life span dendritic cells.
- 8. The method according to claim 1, in which the human dendritic cells were cryopreserved, thawed and recovered prior to their use to activate the T cells in vitro.
- 9. The method according to claim 1, in which the T cells were obtained from the prostate cancer patient.
- 10. The method according to claim 1, in which the T cells were obtained from a healthy individual HLA-matched to the prostate cancer patient.

- 11. The method according to claim 1, in which the prostate patient is suffering from metastatic prostate cancer.
- 12. The method according to claim 1, in which the T cells comprise purified CD8+ T cells or a mixed population of CD4+ and CD8+ T cells.
- 13. A method for producing a cancer growth inhibiting response, comprising: administering, to a prostate cancer patient in need thereof, an effective amount of human dendritic cells, exposed *in vitro* to a prostate cancer antigen, such that after administration the human dendritic cells elicit an immune response or augment an existing immune response against the prostate cancer.
- 14. The method according to claim 13, in which the prostate cancer antigen is selected from the group consisting of a lysate of LNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, a membrane preparation of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3), where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.
- 15. The method according to claim 13, in which the prostate cancer antigen is selected from the group consisting of:

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WLCAGALVL (SEQ. ID. NO. 4); VLAGGFFLL (SEQ. ID. NO. 5);
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ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);

TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);

PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);

LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);

EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);

RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPPGY (SEQ. ID. NO. 17); TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19); WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21); DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23); AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25); GYYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27); NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29); LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31); VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33); ALPERPSLY (SEQ. ID. NO. 34); JVGGWECEK (SEQ. ID. NO. 35); QVHPQKVTK (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37); CYASGWGSI (SEQ. ID. NO. 38).

- 16. The method according to claim 13 in which the prostate cancer antigen is PSMA.
- 17. The method according to claim 13, in which the human dendritic cells were obtained from skin, spleen, thymus, bone marrow, lymph nodes or peripheral blood of the prostate cancer patient.
- 18. The method according to claim 13, in which the human dendritic cells were obtained from peripheral blood.
- 19. The method according to claim 13, in which the dendritic cells were obtained from a healthy individual HLA-matched to the prostate cancer patient.
- 20. The method according to claim 13, in which the dendritic cells are extended life span dendritic cells.

- 21. The method according to claim 13, in which the human dendritic cells were cryopreserved and then thawed prior to administration to the prostate cancer patient.
- 22. The method according to claim 13, in which the prostate cancer patient is suffering from metastatic prostate cancer.
- 23. A composition, comprising: isolated human dendritic cells which following exposure, *in vitro*, to a prostate cancer antigen have been cryopreserved.
- 24. The composition according to claim 23, in which the dendritic cells were cryopreserved following exposure to a prostate cancer antigen selected from the group consisting of a lysate of bNCaP cells, a membrane preparation of LNCaP cells, a lysate of prostate tumor cells of the prostate cancer patient, purified prostate specific membrane antigen (PSMA), a peptide having the amino acid sequence LLHETDSAV (SEQ. ID. NO. 1), a peptide having the amino acid sequence ALFDIESKV (SEQ. ID. NO. 2), a peptide having the amino acid sequence XL(or M)XXXXXXV(or L) (SEQ. ID. NO. 3), where X represents any amino acid, purified prostate specific antigen (PSA), and a purified prostate mucin antigen recognized by monoclonal antibody PD41.
- 25. The composition according to claim 23, in which the prostate antigen is selected from the group consisting of:

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WLCAGALVL (SEQ. ID. NO. 4); VLAGGFFLL (SEQ. ID. NO. 5);
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ELAHYDVLL (SEQ. ID. NO. 6); NLNGAGDPL (SEQ. ID. NO. 7);

TLRVDCTPL (SEQ. ID. NO. 8); VLRMMNDQL (SEQ. ID. NO. 9);

PMFKYHLTV (SEQ. ID. NO. 10); NMKAFLDEL (SEQ. ID. NO. 11);

LMYSLVHNL (SEQ. ID. NO. 12); MMNDQLMFL (SEQ. ID. NO. 13);

EGDLVYVNY (SEQ. ID. NO. 14); AGDPLTPGY (SEQ. ID. NO. 15);

RVDCTPLMY (SEQ. ID. NO. 16); LFEPPPPGY (SEQ. ID. NO. 17);

TYELVEKFY (SEQ. ID. NO. 18); AGESFPGIY (SEQ. ID. NO. 19);

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WGEVKRQIY (SEQ. ID. NO. 20); IVRSFGTLKKE (SEQ. ID. NO. 21); DELKAENIKKF (SEQ. ID. NO. 22); KSLYESWTKKS (SEQ. ID. NO. 23); AYINADSSI (SEQ. ID. NO. 24); KYADKIYSI (SEQ. ID. NO. 25); GYYDAQKLL (SEQ. ID. NO. 26); TYSVSFDSL (SEQ. ID. NO. 27); NYARTEDFF (SEQ. ID. NO. 28); LYSDPADYF (SEQ. ID. NO. 29); LPSIPVHPI (SEQ. ID. NO. 30); SPSPEFSGM (SEQ. ID. NO. 31); VLVHPQWUL (SEQ. ID. NO. 32); KLQCVDLHV (SEQ. ID. NO. 33); ALPERPSLY (SEQ. ID. NO. 34); JVGGWECEK (SEQ. ID. NO. 35); QVHPQKVTK (SEQ. ID. NO. 36); VVHYRKWIK (SEQ. ID. NO. 37); CYASGWGSI (SEQ. ID. NO. 38).

26. The composition according to claim 23, in which the dendritic cells are extended life span dendritic cells.

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